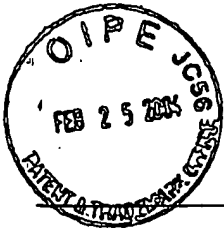


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Applicant:

Kevin I. Bertness

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
US	AA	2,514,745	7/11/50	Dalzell	171	95
	AB	3,593,099	7/13/71	Scholl	320	13
	AC	3,607,673	9/21/71	Seyl	204	1
	AD	3,676,770	7/11/72	Sharaf et al.	324	29.5
	AE	3,729,989	5/1/73	Little	73	133
	AF	3,753,094	8/14/73	Furuishi et al.	324	29.5
	AG	3,808,522	4/30/74	Sharaf	324	29.5
	AH	3,811,089	5/14/74	Strezelewicz	324	170
	AI	3,873,911	3/25/75	Champlin	324	29.5
	AJ	3,886,443	5/27/75	Miyakawa et al.	324	29.5
	AK	3,889,248	6/10/75	Ritter	340	249
	AL	3,906,329	9/16/75	Bader	320	44

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
US	AM	59-17892	1/30/84	Japan		Abstract Only
	AN	59-17893	1/30/84	Japan		Abstract Only
	AO	59-17894	1/30/84	Japan		Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

US	AP	"Electrochemical Impedance Spectroscopy in Battery Development and Testing", Batteries International, April 1997, pgs. 59 and 62-63.				
	AQ	"Battery Impedance", by E. Willihnganz et al., <u>Electrical Engineering</u> , September 1959, pgs. 922-925.				
	AR	"Determining The End of Battery Life", by S. DeBardelaben, <u>IEEE</u> , 1986, pgs. 365-368.				
	AS	"A Look at the Impedance of a Cell", by S. Debardelaben, <u>IEEE</u> , 1988, pgs. 394-397.				

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CS	AT	3,909,708	9/30/75	Champlin	324	29.5
	AU	3,936,744	2/3/76	Perlmutter	324	158
	AV	3,946,299	3/23/76	Christianson et al.	320	43
	AW	3,947,757	3/30/76	Grube et al.	324	28
	AX	3,969,667	7/13/76	McWilliams	324	29.5
	AY	3,979,664	9/7/76	Harris	324	17
	AZ	3,984,762	10/5/76	Dowgiallo, Jr.	324	29.5
	BA	3,984,768	10/5/76	Staples	324	62
	BB	4,008,619	2/22/77	Alcaide et al.	73	398
	BC	4,053,824	10/11/77	Dupuis et al.	324	29.5
	BD	4,070,624	1/24/78	Taylor	327	158
	BE	4,086,531	4/25/78	Bernier	324	158

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
CS	BF	60225078	11/9/85	Japan		Abstract Only
CS	BG	04372536	12/25/92	Japan		Abstract Only
CS	BH	04131779	5/6/92	Japan		Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CS	BI	"The Impedance of Electrical Storage Cells", by N.A. Hampson et al., <u>Journal of Applied Electrochemistry</u> , 1980, pgs. 3-11.
	BJ	"A Package for Impedance/Admittance Data Analysis", by B. Boukamp, <u>Solid State Ionics</u> , 1986, pgs. 136-140.
	BK	"Precision of Impedance Spectroscopy Estimates of Bulk, Reaction Rate, and Diffusion Parameters", by J. Macdonald et al., <u>J. Electroanal. Chem.</u> , 1991, pgs. 1-11.

EXAMINER:

Calderon, G.

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6/29/04

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
CS	BL	4,112,351	9/5/78	Back et al.	324	16
	BM	4,114,083	9/12/78	Benham et al.	320	39
	BN	4,126,874	11/21/78	Suzuki et al.	354	60
	BO	4,178,546	12/11/79	Hulls et al.	324	158
	BP	4,193,025	3/11/80	Frailing et al.	324	427
	BQ	4,207,611	6/10/80	Gordon	364	580
	BR	4,315,204	2/9/82	Sievers et al.	322	28
	BS	4,316,185	2/16/82	Watrous et al.	340	636
	BT	4,322,685	3/30/82	Frailing et al.	324	429
	BU	4,363,407	12/14/82	Barkler et al.	209	3.3
	BV	4,369,407	1/18/83	Korbell	324	416
	BW	4,412,169	10/25/83	Dell'Orto	320	64

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
CS	BX	03282276	12/12/91	Japan		Abstract Only
	BY	03274479	12/5/91	Japan		Abstract Only
	BZ	5216550	8/27/93	Japan		Abstract Only
	CA	59017894	1/30/84	Japan		Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CS	CB	"Internal Resistance: Harbinger of Capacity Loss in Starved Electrolyte Sealed Lead Acid Batteries, by Vaccaro, F.J. et al., AT&T Bell Laboratories, 1987 IEEE, Ch. 2477, pp. 128,131.
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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate	
CG	CC	4,390,828	6/28/83	Converse et al.	320	32	
	CD	4,392,101	7/5/83	Saar et al.	320	20	
	CE	4,396,880	8/2/83	Windebank	320	21	
	CF	4,408,157	10/4/83	Beaubien	324	62	
	CG	4,423,378	12/27/83	Marino et al.	324	427	
	CH	4,423,379	12/27/83	Jacobs et al.	324	429	
	CI	4,424,491	1/3/84	Bobbett et al.	324	433	
	CJ	4,459,548	7/10/84	Lentz et al.	324	158	
	CK	4,514,694	4/30/85	Finger	324	429	
	CL	4,520,353	5/28/85	McAuliffe	340	636	
	CM	4,667,279	5/19/87	Maier	363	46	
	CN	4,678,998	7/7/87	Muramatsu	324	427	
	CO	4,679,000	7/7/87	Clark	324	428	
	CP	4,697,134	9/29/87	Burkum et al.	320	48	

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	Document No.	Date	Country	Class	Sub Class	Translation Yes No
CG	CQ	EP 0 772 056 A1	5/7/97	EPO		X
	CR	EP 0 637 754 A1	2/8/95	EPO		X
	CS	2 088 159 A	6/3/82	Great Britain		X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CG	CT	IEEE Recommended Practice For Maintenance, Testings, and Replacement of Large Lead Storage Batteries for Generating Stations and Substations, The Institute of Electrical and Electronics Engineers, Inc., ANSI/IEEE Std. 450-1987, 3/9/1987, pp. 7-15.
CG	CU	"Field and Laboratory Studies to Assess the State of Health of Valve-Regulated Lead Acid Batteries: Part I Conductance/Capacity Correlation Studies", by D. Feder et al., IEEE, August 1992, pgs. 218-233.

EXAMINER:

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US	CV	4,707,795	11/17/87	Alber et al.	364	550
	CW	4,709,202	11/24/87	Koenck et al.	320	43
	CX	4,710,861	12/1/87	Kanner	363	46
	CY	4,719,428	1/12/88	Liebermann	324	436
	CZ	4,743,855	5/10/88	Randin et al.	324	430
	DA	4,816,768	3/28/89	Champlin	324	428
	DB	4,820,966	4/11/89	Fridman	320	32
	DC	4,825,170	4/25/89	Champlin	324	436
	DD	4,849,700	7/18/89	Morioka et al.	324	427
	DE	4,881,038	11/14/89	Champlin	324	426
	DF	4,912,416	3/27/90	Champlin	324	430
	DG	4,929,931	5/29/90	McCuen	340	636
	DH	4,931,738	6/5/90	MacIntyre et al.	324	435
	DI	4,947,124	8/7/90	Hauser	324	430
	DJ	4,956,597	9/11/90	Heavey et al.	320	14
	DK	4,968,941	11/6/90	Rogers	324	428

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
US	DL	WO 93/22666	11/11/93	WIPO	1	X
US	DM	WO 98/58270	12/23/98	WIPO	1	X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

US	DN	"Battery Impedance", by E. Willihnganz et al., <u>Electrical Engineering</u> , September 1959, pgs. 922-925.				
US	DO	"JIS Japanese Industrial Standard-Lead Acid Batteries for Automobiles", <u>Japanese Standards Association UDC</u> , 621.355.2:629.113.006, Nov. 1995.				

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CA	DP	5,004,979	4/2/91	Marino et al.	324	160
	DQ	5,032,825	7/16/91	Xuznicki	340	636
	DR	5,047,722	9/10/91	Wurst et al.	324	430
	DS	5,087,881	2/11/92	Peacock	324	378
	DT	5,126,675	6/30/92	Yang	324	435
	DU	5,140,269	8/18/92	Champlin	324	433
	DV	5,144,248	9/1/92	Alexandres et al.	324	428
	DW	5,170,124	12/8/92	Blair et al.	324	434
	DX	5,204,611	4/20/93	Nor et al.	320	21
	DY	5,214,370	5/25/93	Harm et al.	320	35
	DZ	5,214,385	5/25/93	Gabriel et al.	324	434
	EA	5,241,275	8/31/93	Fang	324	430
	EB	5,254,952	10/19/93	Salley et al.	324	429
	EC	5,281,919	1/25/94	Palanisamy	324	427
	ED	5,281,920	1/25/94	Wurst	324	430
	EE	5,295,078	3/15/94	Stich et al.	364	483
	EF	5,298,797	3/29/94	Redl	307	246
	EG	5,300,874	4/5/94	Shimamoto et al.	320	15
	EH	5,302,902	4/12/94	Groehl	324	434

FOREIGN PATENT DOCUMENTS

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EI						

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
U	EK	5,331,268	7/19/94	Patino et al.	320	20
	EL	5,336,993	8/9/94	Thomas et al.	324	158.1
	EM	5,352,968	10/4/94	Reni et al.	320	35
	EN	5,343,380	8/30/94	Champlin	363	46
	EO	5,365,160	11/15/94	Leppo et al.	320	22
	EP	5,365,453	11/15/94	Startup et al.	364	481
	EQ	5,381,096	1/10/95	Hirzel	324	427
	ER	5,426,371	6/20/95	Salley et al.	324	429
	ES	5,432,426	7/11/95	Yoshida	320	20
	ET	5,434,495	7/18/95	Toko	320	44
	EU	5,442,274	8/15/95	Tamai	320	23
	EV	5,457,377	10/10/95	Jonsson	320	5
	EW	5,449,996	9/12/95	Matsumoto et al.	320	20
	EX	5,449,997	9/12/95	Gilmore et al.	320	39
	EY	5,485,090	1/16/96	Stephens	324	433
	EZ	5,519,383	5/21/96	De La Rosa	340	636
	FA	5,528,148	6/18/96	Rogers	324	426
	FB	5,550,485	8/27/96	Falk	324	772
	FC	5,561,380	10/1/96	Sway-Tin et al.	324	509

FOREIGN PATENT DOCUMENTS

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
US	FF	5,562,501	10/8/96	Kinoshita et al.	439	852
	FG	5,572,136	11/5/96	Champlin	324	426
	FH	5,574,355	11/12/96	McShane et al.	320	39
	FI	5,585,728	12/17/96	Champlin	324	427
	FJ	5,592,093	1/7/97	Klingbiel	324	426
	FK	5,596,260	1/21/97	Moravec et al.	320	30
	FL	5,598,098	1/28/97	Champlin	324	430
	FM	5,602,462	2/11/97	Stich et al.	323	258
	FN	5,606,242	2/25/97	Hull et al.	320	48
	FO	5,621,298	4/15/97	Harvey	320	5
	FP	5,642,031	6/24/97	Brotto	320	21
	FQ	5,650,937	7/22/97	Bounaga	364	483
	FR	5,652,501	7/29/97	McClure et al.	320	17
	FS	5,675,234	10/7/97	Greene	320	15
	FT	5,677,077	10/14/97	Faulk	429	90
	FU	5,699,050	12/16/97	Kanazawa	340	636
	FV	5,701,089	12/23/97	Perkins	327	772
	FW	5,717,336	2/10/98	Basell et al.	324	430
	FX	5,757,192	5/26/98	McShane et al.	324	427

FOREIGN PATENT DOCUMENTS

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054	GA	5,773,978	6/30/98	Becker	324	430
	GB	5,789,899	8/4/98	van Phuoc et al.	320	30
	GC	5,793,359	8/11/98	Ushikubo	345	169
	GD	5,821,756	10/13/98	McShane et al.	324	430
	GE	5,831,435	11/3/98	Troy	324	426
	GF	5,872,443	2/16/99	Williamson	320	21
	GG	5,914,605	6/22/99	Bertness	324	430
	GH	5,945,829	8/31/99	Bertness	324	430
	GI	3,356,936	12/5/67	Smith	324	29.5
	GJ	5,488,300	1/30/96	Jamieson	324	432
	GK	6,002,238	12/14/99	Champlin	320	134
	GL	6,037,777	3/14/00	Champlin	324	430
	GM	6,051,976	4/18/00	Bertness	324	426
	GN	6,081,098	6/27/00	Bertness et al.	320	134
	GO	6,091,245	7/18/00	Bertness	324	426
	GP	6,104,167	8/15/00	Bertness et al.	320	132
	GQ	6,137,269	10/24/00	Champlin	320	150

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	Document No.	Date	Country	Class	Sub Class	Translation Yes No
CSF	GR DE 29 26 716 B1	1/15/81	Germany	1	1	X
CSF	GS 0 022 450 A1	1/21/81	EPO	1	1	X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CSF	GT	"Performance of Dry Cells", by C. Hambuechen, Preprint of <u>Am. Electrochem. Soc.</u> , April 18-20, 1912, paper No. 19, pgs. 1-5.
CSF	GU	"A Bridge for Measuring Storage Battery Resistance", by E. Willihncanz, <u>The Electrochemical Society</u> , preprint 79-20, April 1941, pgs. 253-258.

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GV	3,562,634	2/9/71	Latner	31	04	
GW	4,379,990	4/12/83	Sievers et al.	322	99	
GX	5,144,218	9/1/92	Bosscha	320	44	
GY	5,315,287	5/24/94	Sol	340	455	
GZ	5,469,043	11/21/95	Cherng et al.	320	31	
HA	5,546,317	8/13/96	Andrieu	364	481	
HB	5,583,416	12/10/96	Klang	320	22	
HC	5,589,757	12/31/96	Klang	320	22	
HD	5,656,920	8/12/97	Cherng et al.	320	31	
HE	5,710,503	1/20/98	Sideris et al.	320	6	
HF	5,760,587	6/2/98	Harvey	324	434	
HG	5,808,469	9/15/98	Kopera	324	43.4	
HH	6,008,652	12/28/99	Theofanopoulos et al.	324	434	
HI	6,009,369	12/28/99	Boisvert et al.	701	99	
HJ	6,031,354	2/29/00	Wiley et al.	320	116	
HK	6,037,751	3/14/00	Klang	320	160	
HL	6,072,299	6/6/00	Kurie et al.	320	112	
HM	6,094,033	7/25/00	Ding et al.	320	132	
HN	6,163,156	12/19/00	Bertness	324	426	
HO	6,172,483	1/9/01	Champlin	320	134	
HP	6,172,505	1/9/01	Bertness	324	430	

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HQ	2 749 397	12/5/97	France			X
HR	59215674	12/5/84	Japan			Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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HT	3,989,544	11/2/76	Santo	429	65	
HU	4,745,349	5/17/88	Palanisamy et al.	320	22	
HV	4,876,495	10/24/89	Palanisamy et al.	320	18	
HW	4,937,528	6/26/90	Palanisamy	324	430	
HX	4,968,942	11/6/90	Palanisamy	324	430	
HY	5,179,335	1/12/93	Nor	320	21	
HZ	5,266,880	11/30/93	Newland	320	14	
IA	5,451,881	9/19/95	Finger	324	433	
IB	5,705,929	1/6/98	Caravello et al.	324	430	
IC	5,717,937	2/10/98	Fritz	395	750.01	
ID	5,862,515	1/19/99	Kobayashi et al.	702	63	
IE	5,895,440	4/20/99	Proctor et al.	702	63	
IF	5,929,609	7/27/99	Joy et al.	322	25	
IG	6,072,300	6/6/00	Tsuji	320	116	
IH	4,659,977	4/21/87	Kissel et al.	320	64	
II	4,913,116	4/3/90	Katogi et al.	123	425	
IJ	5,160,881	11/3/92	Schramm et al.	322	7	
IK	5,338,515	8/16/94	Dalla Betta et al.	422	95	
IL	5,537,967	7/23/96	Tashiro et al.	123	792.1	
IM	5,548,273	8/20/96	Nicol et al.	340	439	
IN	5,747,909	5/5/98	Syverson et al.	310	156	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
IO	62-180284	8/7/87	Japan			Abstract
IP	7-128414	5/19/95	Japan			Abstract

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

IQ

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C. L. M. S. I.

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6/29/04

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FORM PTO-1449

Atty. Docket No.:
C382.12-0141Serial No.:
10/675,933LIST OF PATENTS AND PUBLICATIONS FOR
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DISCLOSURE STATEMENT

Applicant:

Kevin I. Bertness

Filing Date

Group Art:

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
IR	6,114,834	9/5/00	Parise	320	109	
IS	6,150,793	11/21/00	Lesesky et al.	320	104	
IT	3,876,931	4/8/75	Godshalk	324	29.5	
IU	5,347,163	9/13/94	Yoshimura	307	66	
IV	5,939,861	8/17/99	Joko et al.			
IW	5,339,018	8/16/94	Brokaw	320	35	
IX	5,412,323	5/2/95	Kato et al.	324	429	
IY	5,426,416	6/20/95	Jefferies et al.	340	664	
IZ	5,825,174	10/20/98	Parker	324	106	
JA	5,939,855	8/17/99	Proctor et al.	320	104	
JB	5,254,952	10/19/93	Salley et al.	324	429	
JC	4,217,645	8/12/80	Barry et al.	364	483	
JD	4,633,418	12/30/86	Bishop	364	554	
JE	5,321,626	6/14/94	Palladino	364	483	
JF	5,969,625	10/19/99	Russo	340	636	
JG	6,222,369	4/24/01	Champlin	324	430	
JH	6,225,808	5/1/01	Varghese et al.	324	426	
JI	6,249,124	6/19/01	Bertness	324	426	
JJ	6,259,254	7/10/01	Klang	324	427	
JK	6,262,563	7/17/01	Champlin	320	134	
JL	6,294,896	9/25/01	Champlin	320	134	
JM	6,294,897	9/25/01	Champlin	320	153	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
JN	4-8636	1/13/92	Japan			X (Abstract)
JO	63027776	2/5/88	Japan			Abstract Only

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
CH	JP 4,379,989	4/12/83	Kurz et al.	320	26	
	JQ 4,680,528	7/14/87	Mikami et al.	320	32	
	JR 5,633,985	5/27/97	Severson et al.	395	2.76	
	JS 5,739,667	4/14/98	Matsuda et al.	320	5	
	JT 4,024,953	5/1977	Nailor, III	206	344	
	JU 6,250,973	6/2001	Lowery et al.	439	763	
	JV 6,254,438	7/2001	Gaunt	439	755	
	JW 6,304,087	10/16/01	Bertness	324	426	
	JX 6,310,481	10/30/01	Bertness	324	430	
	JY 6,313,607	11/6/01	Champlin	320	132	
	JZ 6,313,608	11/6/01	Varghese et al.	32	132	
	KA 6,316,914	11/13/01	Bertness	320	134	
	KB 5,435,185	7/25/95	Eagan	73	587	
	KC 5,445,026	8/29/95	Eagan	73	591	
	KD 4,667,143	5/19/87	Cooper et al.	320	22	
	KE 4,847,547	7/11/89	Eng, Jr. et al.	320	35	
	KF 5,574,355	11/12/96	McShane et al.	320	39	
	KG 4,663,580	5/5/87	Wortman	320	35	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
CH	KH WO 99/23738	5/14/99	WIPO			X
CH	KI WO 94/05069	3/3/94	PCT			X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CH	KJ	National Semiconductor Corporation, "High Q Notch Filter", 3/69, Linear Brief 5, March 1969.				
	KK	Burr-Brown Corporation, "Design A 60 Hz Notch Filter with the UAF42", 1/94, AB-071, 1994.				
	KL	National Semiconductor Corporation, "LMF90-4 th -Order Elliptic Notch Filter", 12/94, RRD-B30M115, December 1994.				

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
CS	KM	6,323,650	11/27/01	Bertness et al.	324	426
	KN	6,329,793	12/11/01	Bertness et al.	320	132
	KO	6,331,762	12/18/01	Bertness	320	134
	KP	6,332,113	12/18/01	Bertness	702	63
	KQ	4,297,639	10/27/81	Branham	324	429
	KR	5,653,659	8/5/97	Kunibe et al.	477	111
	KS	6,161,640	12/19/00	Yamaguchi	180	65.8
	KT	4,351,405	6/28/82	Fields et al.	180	65
	KU	6,359,441	3/16/02	Bertness	324	426
	KV	4,047,091	9/1997	Hutchines et al.	363	59
	KW	5,653,659	8/1997	Kunibe et al.	477	111
	KX	5,637,978	6/1997	Kellett et al.	320	2
	KY	5,095,223	3/1992	Thomas	307	110
	KZ	5,194,799	3/1993	Tomantschger	320	2
	LA	5,754,417	5/1998	Nicollini	363	60
	LB					

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
LC						
LD						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CS	LE	"Alligator Clips with Wire Penetrators" J.S. Popper, Inc. product information, downloaded from http://www.jspopper.com/ , undated
	LF	"#12: LM78S40 Simple Switcher DC to DC Converter", ITM e-Catalog, downloaded from http://www.pcbcafe.com , undated
	LG	"Simple DC-DC Converts Allows Use of Single Battery", <u>Electronix Express</u> , downloaded from http://www.elexp.com/t_dc-dc.htm , undated

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
CH	LH	5,818,234	10/1998	McKinnon	324	433
	LI	6,140,797	10/2000	Dunn	320	105
	LJ	6,181,545	1/2001	Amatucci et al.	361	502
	LK	6,346,795	2/2002	Haraguchi et al.	320	136
	LM	6,347,958	2/2002	Tsai	439	488
	LN	6,351,102	2/26/02	Troy	320	139
	LO	6,359,441	3/19/02	Bertness	324	426
	LP	6,363,303	3/26/02	Bertness	701	29
	LQ	5,037,778	8/6/91	Stark et al.	437	216
	LR	6,144,185	11/7/00	Dougherty et al.	320	132
	LS	5,711,648	1/27/98	Hammerslag	414	786
	LT	5,927,938	7/27/99	Hammerslag	414	809
	LU	5,951,229	9/14/99	Hammerslag	414	398
	LV	5,961,561	10/5/99	Wakefield, II	701	29
	LW	5,961,604	10/5/99	Anderson et al.	709	229
	LX	6,236,332	5/22/01	Conkright et al.	340	825.06
	LY	6,351,102	2/26/02	Troy	320	139
	LZ	5,821,757	10/13/98	Alvarez et al.	324	434
	MA	6,167,349	12/26/00	Alvarez	702	63

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
MB						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CH	MC	"DC-DC Converter Basics", <u>Power Designers</u> , downloaded from http://www.powederdesigners.com/InforWeb.design_center/articles/DC-DC/converter.shtm , undated
	MD	

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
US	ME 4,665,370	5/1987	Holland	324	429	
	MF 4,361,809	11/1982	Bil et al.	324	426	
	MG 6,392,414	5/21/02	Bertness	324	429	
	MH 6,417,669	7/9/02	Champlin	324	426	
	MI 6,424,158	7/23/02	Klang	324	433	
	MJ 6,441,585	8/17/02	Bertness	320	132	
	MK 6,445,158	9/3/02	Bertness et al.	320	104	
	ML 6,384,608	5/7/02	Namaky	324	425	
	MM 6,388,448	5/14/02	Cervas	324	426	
	MN 6,307,349	10/23/01	Koenck et al.	320	112	
	MO 6,411,098	6/25/02	Laletin	324	436	
	MP 6,456,045	9/24/02	Troy et al.	320	139	
	MQ 6,466,025	10/15/02	Klang	324	429	
	MR 6,466,026	10/15/02	Champlin	324	430	
	MS 4,564,798	1/14/86	Young	320	6	
	MT 5,563,496	10/8/96	McClure	320	48	
	MU 5,796,239	8/18/98	van Phuoc et al.	320	107	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
US	MV RU 2089015-C1	8/27/97	Russia			Abstract Only
US	MW 09061505	3/7/97	Japan			Abstract Only
US	MX 10056744	2/24/98	Japan			Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

US	MY	"Notification of Transmittal of The International Search Report or the Declaration", PCT/US02/29461.
US	MZ	"Notification of Transmittal of The International Search Report or the Declaration", PCT/US03/07546.

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
CS	NA	4,888,716	12/19/89	Ueno	364	550
	NB	6,495,990 B2	12/17/02	Champlin	320	132
	NC	4,385,269	5/24/83	Aspinwall et al.	320	14
	ND	4,686,442	8/11/87	Radomski	320	17
	NE	6,061,638	5/9/00	Joyce	702	63
	NF	6,359,442	3/19/02	Henningson et al.	324	426
	NG	5,541,489	7/30/96	Dunstan	320	2
	NH	6,424,157	7/23/02	Gollomp et al.	324	430
	NI	6,534,993	3/18/03	Bertness	324	433
	NJ	6,544,078	4/8/03	Palmisano et al.	439	762
	NK	6,556,019	4/29/03	Bertness	324	426
	NL	6,566,883	5/20/03	Vonderhaar et al.	324	426
	NM	6,586,941	7/1/03	Bertness et al.	324	426
	NN	6,597,150	7/22/03	Bertness et al.	320	104
	NO	2002/0171428	11/21/02	Bertness	324	426
	NP	6,263,268	7/17/01	Nathanson	701	29

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
CS	NQ	WO 00/67359	11/9/00	WIPO		X
	NR	WO 01/51947	7/19/01	WIPO		X
	NS	WO 98/04910	2/5/98	WIPO		X
	NT	WO 00/62049	10/19/00	WIPO		X
	NU					
	NV					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CS	NW	"Notification of Transmittal of The International Search Report or the Declaration", PCT/US03/06577.
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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
HA	PA 5,410,754	4/1995	Klotzbach et al.	370	85.13	
	PB 5,654,623	8/1997	Shiga et al.	320	48	
	PC 6,055,468	4/2000	Kaman et al.	701	29	
	PD 2003/0025481	2/2003	Bertness	320	155	
	PE 5,313,152	5/1994	Wozniak et al.	320	118	
	PF 2003/0184306	10/2003	Bertness et al.	324	426	
	PG 2004/0000891	1/2004	Raichle et al.	320	107	
	PH 3,750,011	7/1973	Kreps	324	29.5	
	PI 5,159,272	10/1992	Rao et al.	324	429	
	PJ 5,325,041	6/1994	Briggs	320	44	
	PK 6,526,361	2/2003	Jones et al.	702	63	
	PL 6,667,624	12/2003	Raichle et al.	324	522	
	PM 2002/0010558	1/2002	Bertness et al.	702	63	
	PN					

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
HA	PO JP 11103503 A	4/1999	Japan			X (Abstract)
HA	PP WO 01/59443 A1	8/2001	WIPO			X
	PQ					

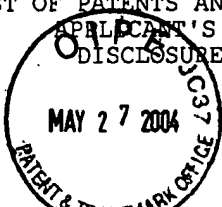
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

HA	PR	Office Action from application Serial No. 10/263,473.
HA	PS	Notification of Transmittal of the International Search Report for PCT/US03/07837.
	PT	
	PU	

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
CH	AA 2002/0176010	11/2002	Wallach et al.	348	229.1	
	AB 2,000,665	5/1935	Neal			
	AC 3,652,341	3/1972	Halsall et al.	136	176	
	AD 3,796,124	3/1974	Crosa	85	36	
	AE 4,023,882	5/1977	Pettersson	339	96	
	AF 4,056,764	11/1977	Endo et al.	320	3	
	AG 4,160,916	7/1979	Papsideris	307	10	
	AH 4,280,457	7/1981	Bloxham	123	198	
	AI 4,620,767	11/1986	Woolf	339	255	
	AJ 4,933,845	6/1990	Hayes	364	200	
	AK 4,934,957	6/1990	Bellusci	439	504	
	AL 5,108,320	4/1992	Kimber	439	883	
	AM 5,323,337	6/1994	Wilson et al.	364	574	
	AN 5,412,308	5/1995	Brown	323	267	
	AO 5,453,027	9/1995	Buell et al.	439	433	
	AQ 5,745,044	4/1998	Hyatt, Jr. et al.	340	825.31	
	AQ 5,747,967	5/1998	Muljadi et al.	320	39	
	AR 5,772,468	6/1998	Kowalski et al.	439	506	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
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EXAMINER:	DATE CONSIDERED: 6/29/04

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
BA	5,780,980	7/1998	Naito	318	139	
BB	5,850,113	12/1998	Weimer et al.	307	125	
BC	5,865,638	2/1999	Trafton	439	288	
BD	5,978,805	11/1999	Carson	707	10	
BE	5,982,138	11/1999	Krieger	320	105	
BF	6,005,759	12/1999	Hart et al.	361	66	
BG	6,031,368	2/2000	Klippel et al.	324	133	
BH	6,046,514	4/2000	Rouillard et al.	307	77	
BI	6,064,372	5/2000	Kahkoska	345	173	
BJ	6,081,109	6/2000	Seymour et al.	324	127	
BK	6,158,000	12/2000	Collins	713	1	
BL	6,211,651	4/2001	Nemoto	320	133	
BM	6,222,342	4/2001	Eggert et al.	320	105	
BN	6,238,253	5/2001	Qualls	439	759	
BO	6,242,887	6/2001	Burke	320	104	
BP	6,259,170	7/2001	Limoge et al.	307	10.8	
BQ	6,356,042	3/2002	Kahlon et al.	318	138	
BR	6,531,848	3/2003	Chitsazan et al.	320	153	

FOREIGN PATENT DOCUMENTS

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BS						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BT	
EXAMINER: <i>W. S. H. Jr.</i>	DATE CONSIDERED: <i>6/29/04</i>

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	Kevin I. Bertness	
	Filing Date	Group Art:
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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
CA	6,600,815	7/2003	Walding	379	93.04	
CB	6,618,644	9/2003	Bean	700	231	
CC	6,628,011	9/2003	Droppo et al.	307	43	
CD	6,679,212	1/2004	Kelling	123	179.28	
CE						
CF						
CG						
CH						
CI						
CJ						
CK						
CL						
CM						
CN						

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
CO	GB 2 246 916 A	10/8/90	Great Britian			
CP						
CQ						

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CR	
CS	
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